3. Development of Polymer 'Chips' used in Medical Diagnostics

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Laura Schultz

Laura Schultz is entering her final year of a joint BS/MS program at Georgia Institute of Technology, majoring in Civil Engineering Structural Engineering, Mechanics and Materials. As an undergraduate, Laura conducted research on code development for mixed steel and concrete composite columns under Dr. Roberto Leon as part of the NEESR II: System Behavior Factors for Composite and Mixed Structural Systems project. She has also been the Vice President of the student chapter of Engineers without Borders, and represented Georgia Tech as part of a five member team for the 2010 EERI undergraduate seismic design competition. Laura is returning to Georgia Tech in the fall of 2010 to complete her graduate degree focusing on earthquake engineering and will be working as a teaching assistant for Civil Materials Lab. Outside of school; Laura enjoys running track and road races as a member of Running Wreck at Georgia Tech; playing sand volleyball, and reading.

Justin Vanness

Justin Vanness recently earned his B.S. degree in Mechanical Engineering from Michigan Technological University (MTU). He will be continuing his education by attending the University of Illinois this fall to pursue a Master's degree in Mechanical Engineering, focusing in the area of Control Systems. Justin is a former president of Michigan Tech's chapter of American Society of Mechanical Engineers and served as a member of the Student Advisory Committee for MTU's Mechanical Engineering department. As an undergraduate, Justin interned with Caterpillar, Georgia Pacific, and MTS Systems, conducted research simulating the dynamics of ship-mounted naval cranes, and was a coach in MTU's Engineering Learning Center. In his spare time he enjoys archery, tennis, volleyball, broom ball, and watching the Green Bay Packers.

Zach Brush

Zach Brush is a senior Engineering Science student at Trinity University in San Antonio, Texas. Last year, Zach worked as a teaching assistant for the Duke Talent Identification Program, teaching the principles of engineering design to aspiring high school students. He has also worked on a variety of design projects at Trinity, ranging from the design of truss structures to the development of wireless signaling devices for hearing impaired individuals. While not studying engineering, Zach completes for his collegiate Cross Country and Track teams. Zach plans on attending graduate school in Dynamics and Control Systems Engineering starting in the fall of 2011.